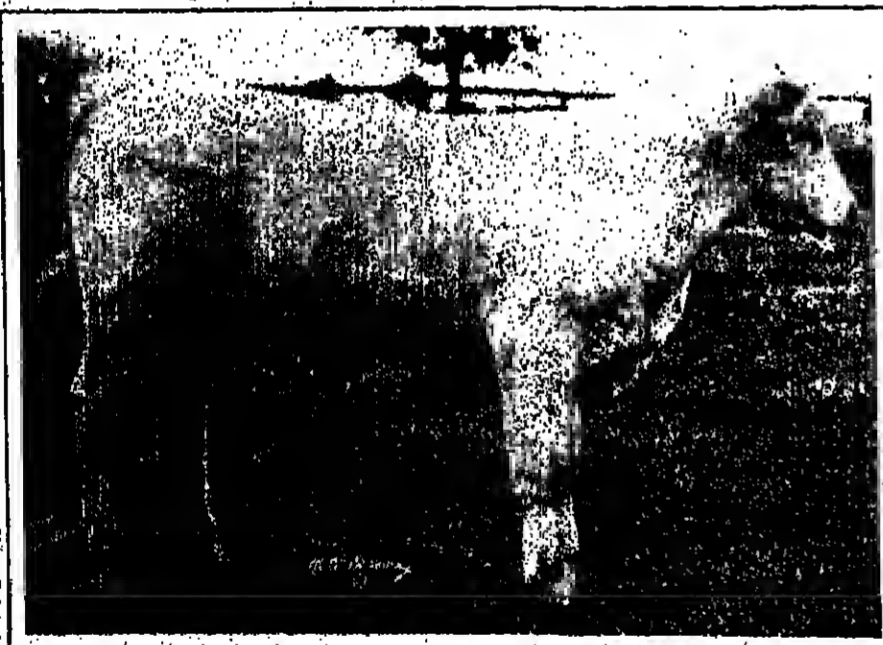




Featuring the **BLEND**  
**Avignon FR 31—Courage**  
in the  
**Double Hook Tradition**

**January 22, 1981**



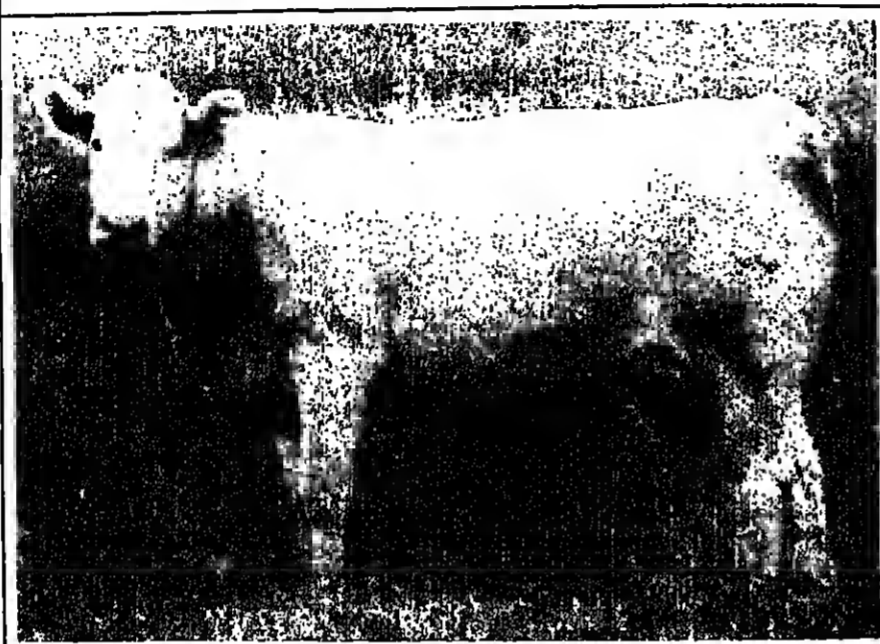
**1/2 INTEREST, FULL POSSESSION SELLS!**  
**DOUBLE HOOKS AVIGNON P0100 (polled)**

A smooth, double polled son of DH Sculptor (Polled). He is a linebred Avignon FR 31 son with 10 polled ancestors in his pedigree. His dam is a smooth polled highly productive daughter of XXI Century.

**THE BLEND:** Double Hooks' strong Avignon FR 31 linebreeding program blended with more growth and performance from the Courage outcross. This blend has resulted in one of the most talked-about crosses in the breed today, from conformation and performance to efficiency and dependability.

Double Hook ranch has the largest pool of Avignon breeding anywhere, and is described by many as the breed's strongest genetic line. They're the Cowman's Kind in the Double Hook Tradition.

# Special Edition 1



**ANKONY SHADOW ISLE GENETIC CENTER**  
**BENNETT, COLORADO—7:00 p.m.**

**25  
Lots**

**20 FEMALES—5 HERD SIRE PROSPECTS**  
Double smooth polled herd sire prospects and females are included in this opportunistic offering. Progeny of the two highest ranked bulls in the AICA Hall of Excellence. Selected lots will be on display in the Cherokee Herd Bull Alley in the yards at the National Western prior to the sale.

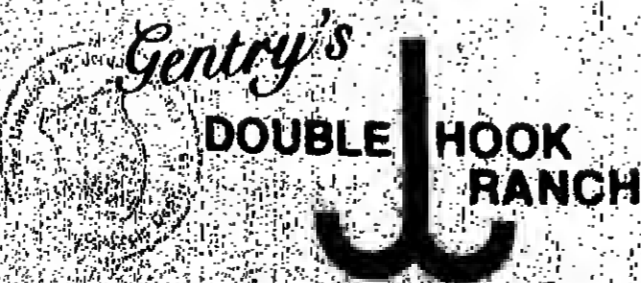
**PLUS  
10 Lots**

from selected consignors, each a Double Hook customer, providing females and herd sire prospects of Avignon and Courage breeding.

From the herds of  
**BAUMAN RANCH—Carpenter, Wyo.**  
**COSTERISAN FARMS—Bakersfield, Calif.**  
**KLINGLESMTN'S LK RANCH—Meeker, Colo.**  
**SHALLOW CREEK CHAROLAIS—Ft. Sumner, N.M.**

**AUCTIONEER: Bill Lefty**

Bus transportation to and from the Denver Regency Inn will be provided, beginning at 5:00 p.m. Refreshments, buffet. All cattle are exportable.



**Family Ranching Since 1887**  
**Vic Gentry • 308/458-2428**  
**Whitman, Nebraska 69366**

## WESTERN LIVESTOCK JOURNAL

A CROW PUBLICATION

News • Trends • Sales • Shows • Markets

January 19, 1981

Central Edition

Vol. 68, No. 12



### Comments

When President-elect Ronald Reagan takes office tomorrow (Jan. 20), he will attempt to avoid the early pitfalls of the Carter administration. Livestock producers, particularly, know the value of conservation in their business decisions and are likely to find the next generation of government rules and regulations a lot easier to live with.

Economic and business planning simply is a lot easier when a stockman knows he can count on certain rules, or that the rules won't be changed in the middle of a production cycle.

The election did not, of course, eliminate two major issues extremely important to livestock producers and the animal health industry: Sensitivity of Method (SOM) and Cyclic Review. The FDA could not put the two proposals into effect before the inauguration of President Reagan, and it will be some time before the new administration can get a handle on such complex and controversial proposals—even if ultimately they are inclined to go ahead with them.

The present Food and Drug Commissioner, Jere Goyas, is expected to tender his resignation, perhaps to depart before his successor is named. After the last Democrat-to-Republican turnover of the White House, it took almost a year to install a new commissioner. It now appears that Dr. Gerald Ceval will remain as acting director of the Bureau of Veterinary Medicine (BVM) until well into the new year.

Apart from the controversial SOM and Cyclic Review issues, it would seem that the "routine" business of BVM—particularly and most importantly the approval of new animal health and growth products—could and should move forward without interruption, mainly because their approvals are supposed to depend on science rather than politics.

Position paper submitted:

## Meat men advise new administration

An industry position paper submitted to U.S. President-elect Ronald Reagan's agricultural advisers recommends the incoming administration revise policy in five areas of concern to livestock and meat producers, reports Commonwealth News Service (CNS).

The paper was written by Roy Kopp, past president of the National Pork Producers Council and former chairman of the Meat Board's Pork Producers Council, and Richard McDougal, former National Cattlemen's Assn. president.

The document urges the new administration to devote more funds to research aimed at improving livestock production efficiency and to intensify foreign animal disease research and control efforts. It also urges the government to limit its credit to livestock producers to emergency situations, thus avoiding subsidizing inefficient producers.

The paper calls for tax incentives to spur capital investment, including the expansion of federal tax incentives to include all

buildings and facilities used in agricultural production. It also urges modifications in estate tax laws to prevent the need for forced liquidation of family farms or ranches to pay such taxes.

The paper said USDA should strike a balance between producer and consumer interest in policy decisions.

"There is no doubt that consumer interests and needs can be served within USDA, but not by making food production subservient to consumer interest," the paper said.

USDA should work to emphasize consumer understanding of modern food production systems and should work to build public confidence in the whole.

(Continued on page 5)

Promises to serve ag interests:

## Block headlines Farm Bureau talks

By MARTHA WILLIAMS  
Secretary of Agriculture-designate John Block told some 700 American Farm Bureau Federation (AFBF) members, attending their 62nd annual convention Jan. 11-14, that "Governor Reagan... understands we have to have profitability in agriculture."

Block, speaking in a general session of Farm Bureau delegates in the New Orleans Superdome, said his priority "is to safeguard the interests of agriculture and serve as an agricultural advocate."

In doing this, he sees himself serving agriculture, agribusiness, and consumer interests, he said.

Block said he favors "going to a four-year bill rather than just an extension" of the farm bill.

Referring to a statement he made shortly after his nomination for the top USDA post regarding food as a foreign policy weapon, Block said, "I can see that

calling food a weapon may be a little harsh. Maybe I should have said that food is a great asset. It's an effective instrument, it's a useful tool, for the purpose of promoting and forwarding world peace, for the purpose of providing stability in the world... Let's not sell this agricultural industry short by pretending that we don't have an effect."

Block continued, saying that "we are only effective if we are a reliable supplier of products... consistent in our supplying."

He stressed that U.S. trading partners need to be able to "count on" U.S. exports.

Block promised an attempt to cut regulations,

but warned it would be an austere budget and "there isn't going to be a lot of expansion in programs."

He said that farmers haven't had any incentive to produce the past three years, but predicted that given production incentive, the agriculture industry will respond.

AFBF President Robert Delano urged that President-elect Reagan give "high priority to his election campaign promises to end the grain embargo," which Delano termed "an economic and diplomatic disaster."

Delano, in his annual (Continued on page 5)

USDA begins grading update procedures... For story, see page 6

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## Oklahoma ranchers cooperate on extensive brucellosis blitz

Oklahoma Department of Agriculture officials are launching the cooperative spirit of cattlemen in the heavily brucellosis-infected southeastern part of the state who use the "community pastures" owned by Weyerhaeuser Co., the large land-owning timber company.

In one of the most extensive projects mounted in the war against the highly infectious and costly cattle disease, state and federal animal health officials have launched a drive to "clean up" Bang's Disease in the thousands of acres of grazing land leased to area cattlemen by Weyerhaeuser.

Under an agreement signed by the animal industry division of the department and Weyerhaeuser, cattle can enter the leased pastures of the timber company only if they come from brucellosis-free herds and have passed a negative brucellosis test before being put in the pastures.

Weyerhaeuser, which holds title to some 892,000 acres of timberlands in McCurtain, LeFlore and Pottawatomie counties, leases thousands of acres of the timberlands for grazing to many different owners. Herds are often mixed together but ownership is

determined by brands or other means.

Dr. Robert Hartin, state veterinarian, said the new regulations affected about 20,000 cattle in Pottawatomie and McCurtain counties. A similar program had already been in effect in LeFlore County, where timber and grazing lands are dominated by the Osage National Forest.

Using a mobile laboratory and a staff of about eight persons, the massive field operation will cover four different Weyerhaeuser forest districts over a four-month period. Crew members include state department of agriculture laboratory technicians and veterinarians and fieldmen from both the department and the USDA.

"This project should be a tremendous help in controlling the spread of brucellosis in southeastern Oklahoma," Hartin said. "It may provide the pilot program needed to enable cattle producers of southeastern Oklahoma to progress more rapidly in eradicating brucellosis from their section of the state."

Often criticized in the past by cattlemen from other parts of the state and by state and federal officials, local cattlemen's cooperation in the program has exceeded all expectations.

### Coming Events

Jan. 14-24—National Western Stock Show, Denver, Colo.  
Jan. 20—American Angus Assn. National Western Bull Show, Denver, Colo.  
Jan. 20-21—MPLA Texas Longhorn Steer Show, National Western, Denver, Colo.  
Jan. 21—American Murray Gray National Show at the National Western, Denver, Colo.  
Jan. 28-Feb. 8—Southwestern Expo & Fair Stock Show, Fort Worth, Tex.  
Jan. 31-Feb. 8—Black Hills Stock Show, Rapid City, S.D.

**CATTLE AUCTIONS**  
Jan. 18—All Breeds Angus Sale, Anthony Shadow Sale, Bennet, Colo.  
Jan. 19—American Galloway Breeders Assn. 10th Mile Hi Sale, Denver, Colo.  
Jan. 19—Murray Cattle Assn. Sale, National Western Stock Show, Denver, Colo.  
Jan. 19—No. American Blonde Aquiline Foundation National Western Sale, Denver, Colo.  
Jan. 21—American Angus Assn. National Western Bull Sale, Denver, Colo.  
Jan. 21—American International Sale of the Year, Charolais Assn. National Western, Denver, Colo.  
Jan. 21—American Hereford Assn. National Western, Denver, Colo.  
Jan. 21—North American

By GLEN RICHARDSON  
With interest rates threatening to choke off consumer buying power while stockmen face soaring prices and precarious supplies of grain, the livestock industry has been warned that the "evidence is overwhelming that the beef industry is producing far too much fat."

Speaking before a meeting of the Mountain Plains Meat Club that traditionally kicks off the National Western Stock Show, Denver, W.D. "Bill" Farr told more than 120 gathered to celebrate the show's 75th anniversary that "the cattle industry is not profitable and will not be profitable until some basic changes in cattle production are accomplished."



W.D. "BILL" FARR  
"The cattle industry is not profitable..."

Farr, who served as president of ANCA in 1970-71, and has been a director of the National

Western since 1949, warned that during the show's last 75 years except for the fed beef contest, most everything is still judged by its looks, color and appearance. "That has been the best technology we had."

The cattle cycle is not working as people predict, he suggested, because the cattle industry has not studied its markets. "We are producing too much heavy fat beef the consumers don't want. The same consumers are refusing to buy the big extravagant automobiles. The price of wholesale beef tells us that the consumer is gradually choosing other foods."

Labor costs, transportation costs, all keep increasing. "Beef carcasses will soon be obsolete. All beef will be boxed and boned or the chain stores can't afford to handle it," Farr said.

"The simple fact that beef must fit a box means that slaughter cattle weights and finish must be as uniform as possible. The consumer or the restaurant both want smaller portions so that serving costs can be kept reasonable."

"Today it is hard to sell 1200 lb. steers because they don't fit the box and the demand," he argued.

Farr urged the industry to select as few breeds as possible. "Develop these breeds for only one purpose—to produce a 700-750 lb. steer as cheaply and quickly as possible in grass, then short feed the animal for 100-120 days to be killed at 1100 lbs."

"Efficient beef produc-

tion at minimum cost is the name of the game. It must be standardized to competitive with pork and poultry," he warned.

Functional efficiency of the animal is all that is really important. "If the industry responds quickly, beef will continue to be a major food. If the industry continues to drift in many different directions, we will continue to lose consumers," he concluded.

### Railroad expansion eases grains export

Recent exports of grain and other agricultural products have been transported largely without problem for the past year, only mainly in expansion of railroad hopper cars at locomotives, says the USDA.

With roughly 29,000 more jumbo covered hopper cars in service than a year earlier and the largest locomotive fleet in history, American railroads have smoothly handled an additional 7.3 million bushels per week over the previous high volume in 1973, says the USDA.

Inland waterway transportation has also improved

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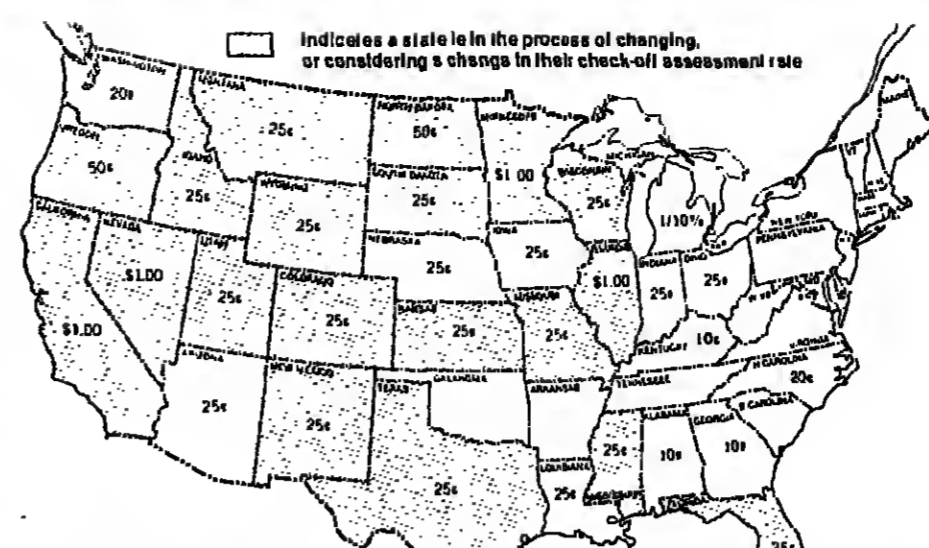
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**MAPPING OUT PROGRESS**—The above U.S. map shows where each state is at in regard to check-off rates. The Live Stock and Meat Board reports progress in getting more funds for beef research and promotion.

## Check-off push makes headway

Twenty major beef-producing states have taken or are considering action to increase their beef check-off rates, according to a spokesman for the Beef Industry Council (BIC) of the National Live Stock and Meat Board.

J. Richard Pringle, a rancher and cattle feeder from Yates Center, Kan., who serves as chairman of the BIC's revenue development committee, said the states' action is consistent with the findings of a Doane Agricultural Service survey of cattlemen taken six months ago.

"This shows us that cattlemen weren't just talking when they said they were willing to support a higher level of funding for beef market development programs," Pringle said.

In the Doane survey, approximately two-thirds said they would invest 50 cents per head or more in such efforts, which are conducted by the Meat Board's Beef Industry Council and some 29 state beef promotion organizations.

At a recent meeting in Ames, Iowa, called by the BIC Revenue Development Committee, the following state actions were discussed:

- Move to one dollar per head—California, Illinois, Minnesota, Nevada;
- Move to 50 cents per head—North Dakota, Oregon;
- Move to 25 cents per head—Colorado, Florida, Idaho, Kansas, Mississippi, Missouri, Montana, New Mexico, South Dakota, Texas, Utah, Wisconsin, Wyoming.

In addition to these states, Iowa is also considering an increase from its present 25-cent rate, although no official action has been taken to date. (Other states, including Arizona, Indiana, Louisiana, Nebraska and Ohio, are on a 25-cent program.)

"Some states, such as Kansas, have been actively trying to implement a new, higher rate on a voluntary basis, market by market. But several others have passed resolutions in support of a change in their state's legislated check-off program. Either way, it will take time before a significant amount of additional funds are realized," Pringle said.

effective market development program for the beef industry. We're going to need that kind of funding to maintain beef's market share and increase demand for greater profit opportunity," he added.

Pringle also stressed the importance of a coordinated approach to beef market

development, involving national efforts by the Beef Industry Council of the Meat Board and in-state programs by beef councils.

When we were kids, our parents taught us how to meditate. They said, "Sit down and shut up."

## Warning: poisonous plants on rise

"Stockmen, be prepared for an influx of poisonous plants this winter," warns Kirk McDaniel, extension brush and weed control specialist at New Mexico State University. Last summer's drought weakened range plants and denuded large areas of range.

Rain and snowfall has increased over most of New Mexico, and the soil moisture has allowed many species of annual plants to revegetate hard hit areas. The problem is that some of these plants are toxic to livestock. Cattle, horses and sheep will graze these plants because normally preferred grasses made little growth over the past year, McDaniel says.

If symptoms of poisoning occur, stockmen should immediately contact a veterinarian. If plants are suspected, the veterinarian can provide information about the kind of plants to look for in a range survey. Specialists with the NMSU Cooperative Extension Service or the Soil Conservation Service are also available to

identify plants suspected of poisoning, McDaniel says. Livestock poisoned by plants can be treated in several ways. A veterinarian may prescribe a medicine, supplemental feeding may be in order, or the animals may simply be moved to a different pasture. Because there are so many different chemical compounds in plants that cause poisoning, no one treatment will work in all cases.

Prevention is the best practice to reduce losses, McDaniel says. Toxic plants can be controlled by hoeing or spraying. You can also fence hazardous areas or by using animals which can safely clean the pasture.

For the long-range, develop a deferred-rotation grazing program to improve range condition. A range in good condition has a high amount of perennial forage plants which offer heavy competition and a reduced number of toxic annuals, McDaniel says.

Toxic plants create a complex problem. A good

range-livestock management program which plans for drought and infestations of toxic plants will help prevent livestock losses, the specialist says.

It is important to remember that even on the best rangeland, infestation of poisonous annuals still occur along roads around watering areas, salt grounds and bedding areas.

### What's next for beef?

What's next in beef merchandising? Consumer acceptance of frozen beef, followed by central cutting, say representatives of John Morrell Co. and Swift and Co.

Speaking at a seminar on food distribution, the packing company representatives said central preparation of carcasses is already here, but consumers have not fully accepted frozen beef. But, they added, as sales of microwave ovens climb and as meat distribution costs increase, frozen beef sales will increase.

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## Food safety for consumers carries heavy price in store

Consumers of food from animals now have extensive assurance of the safety of these products as a result of laws and regulations enacted over the last several decades, but this progress has not been made without costs.

As a result of some of these same laws and regulations, advances in development and use of drugs, essential nutrients, and pesticides in animal production have been slowed to a snail's pace. Productivity of scientific effort has been reduced, and increases in efficiency of animal production have been retarded because of them.

All these effects show up in the market as increased prices consumers must pay for foods from animals.

The naturally occurring element selenium was discovered in 1957 to be an essential nutrient for animals, and two years later its addition to animal diets was authorized in New Zealand.

"But in the U.S., it has taken 22 years to gain approval from the Food and Drug Administration to add this nutrient to the diets of certain poultry, swine, sheep, and cattle," according to Duane Ulrey, a member of a task force of 15 scientists commissioned by the Council for Agricultural

Science and Technology (CAST) to prepare a report on the impact of government regulations on the use of chemicals in animal production.

"Our inability to add trace quantities of this trace mineral to animal diets that are deficient in selenium has cost billions of dollars in reduced performance, sickness, and death of food animals," says Ulrey, an animal nutritionist at Michigan State University.

"Losses due to selenium deficiency in cattle and sheep alone have been estimated to exceed \$500 million in a single year—costs that have been added to the price of the meat and other products we derive from these animals."

"The regulatory hurdles are especially troublesome for animal nutrients that are not patented because all companies can sell them, and no one company can afford to produce all the information needed to obtain approval for their use from the Food and Drug Administration. Because of this, we tend to organize a special research program among university scientists to develop all the information needed for selenium use."

"Many years of research by publicly sponsored scientists have been invested in

this effort to satisfy Food and Drug Administration requirements, and we still aren't done."

"With proprietary or patented products, the problem is different," says Charles Lassiter, an animal scientist at North Carolina State University. "If a company has a good product with a wide enough potential market and enough capital to invest, it can do the work needed to obtain approval from the Food and Drug Administration and still make a profit in the end, but the process is frustrating and slow, and it is expensive."

"If a company can't see enough of a market to more than recover its costs, it won't bother to seek approval. This means that our approval process prices products with minor though important uses out of the picture."

\*\*\*  
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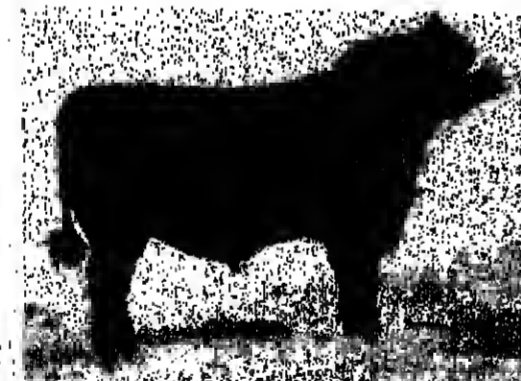
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## Block headlines Farm Bureau talks; promises ag service

(Continued from page 1)  
address to the delegates, representing more than three million Farm Bureau families, said the embargo hurt cost farmers and ranchers a minimum of one billion dollars in cash grain income and has permanently disrupted grain trading patterns.

Congress and the executive branch to reduce federal taxes and spending.

Delon said he sees the 1980 increase in Farm Bureau membership (more than 98,000 new member families) as a mandate to "seek solutions to a long list of pressing farm problems, including improved farm income, the right to farm without undue regulations, adequate farm energy supplies, and a stronger voice for farmers and ranchers whenever agricultural decisions are made."

Returning to the embargo question, Delano said, "Should further Soviet aggression require sanctions, we ask for a full embargo of oil trade, technology, services and cultural contacts."

Other general session speakers included Federal Reserve Chairman of the Board Paul Volcker; former Army Chief of Staff General W.C. Westmoreland; and Louisiana Congressman Benson Moore.

Volcker told Farm Bureau delegates he sees no choice

but to continue the present tight money and credit policies.

"We have not yet turned the corner on inflation," he said, citing continued increases in the prices of land and equipment. He sees a need for change in "attitudes and policies across a broad range of private and public behavior" to achieve financial stability. And he suggested that control of federal spending, a balanced budget, tax reform and regulatory changes need to begin now.

The Federal Reserve chairman asked the agriculture community to look for ways to improve the effectiveness of critical farm programs, find ways of reducing costs, and eliminate "costs that may be distorting investment decisions."

The Farm Bureau Women, with several thousand delegates, heard Dr. Cortez F. Enloe, Jr., keynote speaker, declare that "the government should not be telling the American people what to eat."

In commenting on upcoming changes in the federal government, the publisher of "Nutrition Today" said, "While Mrs. Foreman (Assistant USDA Secretary Carol Tucker Foreman) and her political cohorts will suffer only the painful experience of being rejected politicians; the troops in her army of public interest lawyers, half-baked scientists, some biochemists who should know better, and others in the battalion of food activists will find themselves out in the cold."



JOHN HUSTON

He characterized inflation as the nation's and farmer's number one problem, and said, "We have always appreciated the need for an independent Federal Reserve, but have been greatly disappointed in the Reserve's unwillingness to follow consistent policies to hold down growth in the nation's money supply to reduce inflation."

He also called for

### Meat men advise new administration

(Continued from page 1)

some of the U.S. food supply, the paper said. It criticized Carter administration officials for placing too much emphasis on consumer interests.

The authors also urged the new administration to eliminate "burdensome, unrealistic" government regulations. They called for a return to multiple-use and sustained-yield policies on federal lands; the current administration's attitudes and policies on grazing have been directed toward reducing domestic livestock numbers on federal lands.

The paper also called for review and revision of nutrition education programs and school lunch guidelines. A procedure should be established to provide for review of government dietary recommendations by the National Academy of Sciences before such recommendations are issued. The paper said the recommendation for Americans to avoid too much fat, saturated fat and cholesterol should be eliminated from the USDA's dietary guidelines.

"While it is appropriate for the federal government to advise the public on matters of diet and health, dietary recommendations must be based on conclusive scientific information," the paper said.

In the food safety area, the report called for modifying the Delaney clause of the Food, Drug and Cosmetic Act and the Federal Meat Inspection Act to allow regulators to weigh the risks versus the benefits of food ingredients in their policy decisions. The Delaney Clause bans from the food supply any substance shown to cause cancer in laboratory animals.

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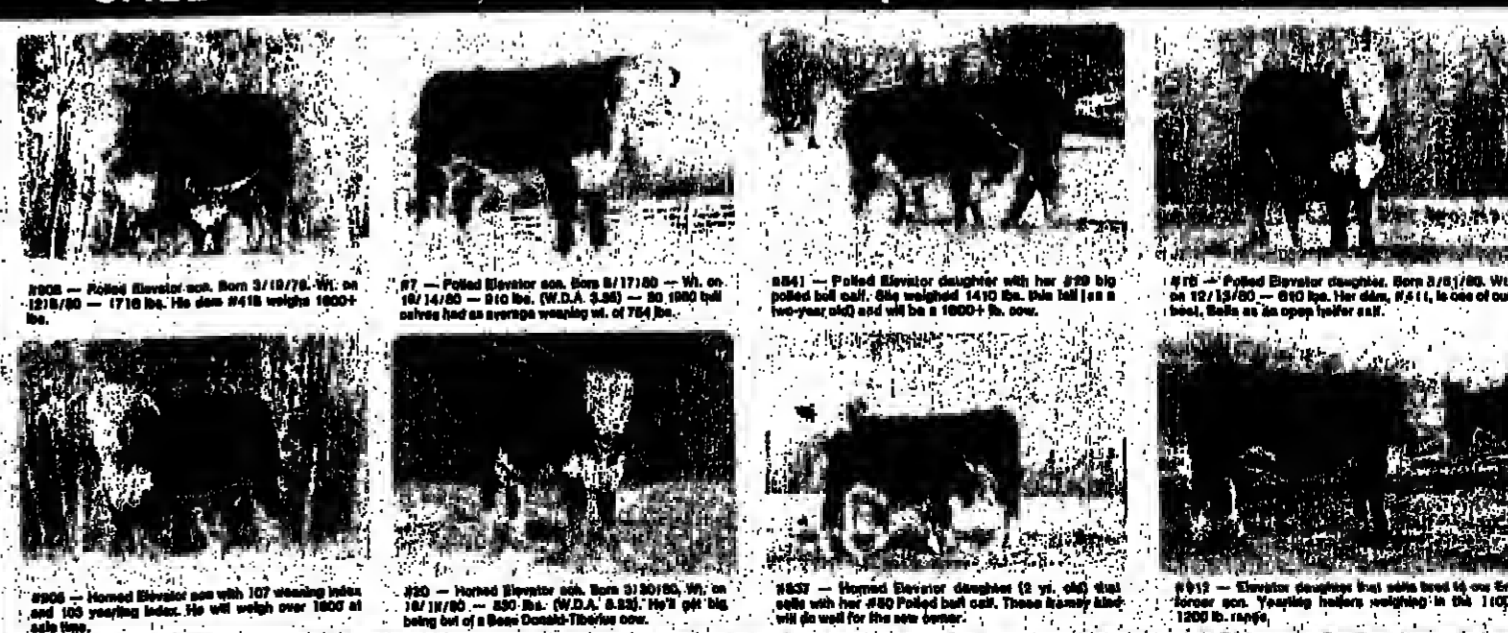
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easy-fleshing cattle with extra length and bone. Also, they are sound-bodied cattle. The really unbelievable thing about them is their natural growth ability without extra feed. My records show my weaning weights have increased early 50 lbs. on the average resulting from the Beau Donald bulls. They just have better conformation to lead to gain and the additional pounds are in the right place . . . the hindquarters."

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# Government grading: Industry hands out grades of its own

(Continued from page 1)  
slight amounts of marbling. David Tatum, professor of animal science at Colorado State University, said a majority of today's cattle are reluctant to conform regardless of the amount of marbling. Instead of living with a system that encourages over-fattening, he suggested emphasizing marbling to allow more cattle into the higher grades where they belong.

One way to de-emphasize marbling is to use outside fat thickness as an alternative, according to Mike Dikeman, professor of animal science at Kansas State University. He said research shows that a 0.4-inch fat thickness results in at least equal palatability to the choice grade. One possible grading change could allow a carcass in the choice grade with either the current marbling requirement or 0.4 inch of fat thickness.

Where the fat thickness requirement is substituted, slight marbling should still be required. Dikeman said marbling should not be totally excluded from the grading system—no more than should other characteristics of maturity, lean color and firmness.

Using fat thickness as an alternative to marbling could cut feeding time 10 to 30 days, Carl Jensen, a cattle feeder from Everly, Iowa, said some advantages to this might include reducing the beef tonnage in the country, which might help raise prices a bit, a leaner product with better yield grades and faster turnover in the feedlot.

Representing the consumer advocate point of view, Thomas H. Smith, research director of the Community Nutrition Institute, Washington, D.C., said the major concern of consumers is price—and it will be price which will dictate whether beef, pork or poultry will come out on top. He added that the beef industry is locked into a high-cost market because of the grading system which discriminates against lean beef and lower prices. If the trend continues, the industry could price itself into a specialty market in 10 to 20 years.

Smith sees no problem with modernizing grades. Few consumers know about grades under prime and choice anyway, so changes would result in a minimum of confusion. One alternative would be to lower the choice grade to include all or some of the good grade. Another possibility would be to change the name of the good grade to a more appealing "choice-lean" or "choice-lite." The altered grade could be called "USDA lean," Smith said.

Other presentations were given at the 2½-day conference on new technologies and methods, the process and politics of implementing grade changes, the future of cattle production in the U.S. and the innovative merchandising of beef's competitors, among others.

The National Beef Grading Conference was sponsored by the National Cattlemen's Assn., the Iowa Beef Industry Council, the Iowa Cattlemen's Assn. and Iowa State University, and co-sponsored by 12 state beef councils. More than 300 persons from 32 states and two Canadian provinces representing cattle feeders, purebred breeders, packers, purveyors, retailers, processors, consumers, researchers and the USDA debated what changes, if any, are needed in USDA beef grading specifications and procedures.

William Zmolek, ISU extension livestock apocel-ist and coordinator of the milestone conference, said the goal of the meeting was to create an awareness of problems in the beef industry related to grading and to provide a source of information upon which future proposals could be based.

W.T. Berry, executive vice president of the National Cattlemen's Assn., said research information and the different points of view which came out of the conference will be a major part of the input for developing an NCA position paper on modernizing the beef grading system.

The upshot is that there could be a significant shift toward more cooperative and voluntary self-enforcement programs.

GLEN RICHARDSON

## Comments

(Continued from page 1)

Whether these approvals do go forward will be a true test of the transition process for the animal drug industry and livestock producers.

The upshot is that there could be a significant shift toward more cooperative and voluntary self-enforcement programs.

GLEN RICHARDSON

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# Concern grows for sinking water lines

Parts of the Midwest entering their third year with reduced stream flow and declining water tables as a result of below-average precipitation, the National Weather Service in St. Louis, Mo., said, according to CNS.

Although sporadic dry spells have affected the Midwest during the past 30 years, the current drought has lasted since the fall of 1979. There is considerable concern for major stream flows this year because there is no snow cover in any of the affected areas, particularly the more northern states. In those states, snowfall is the main source of stream flow, the NWS said.

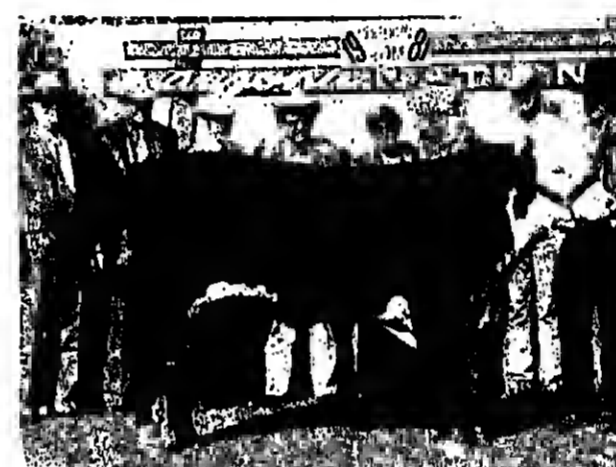
Most of Nebraska, western Iowa, eastern Kansas, central and eastern South Dakota and nearly all of Missouri had moisture deficits of five to 13.00 inches (125 to 325 mm) in 1980. This precipitation represented 56 to 96% of normal, with most midwestern areas reporting 70 to 75% of normal.

The flow of the Missouri River already has been reduced, and projections for stream flow during the summer call for a continuation of the reduced flow.

The National Weather Service reports current conditions in the principal basins follows:  
• Osage Basin, Kansas-Missouri: Below-normal stream flow, reservoirs near normal, soil conditions moderately dry.  
• Grand River Basin, Missouri-Iowa: Minor flooding in early December has kept reservoirs, stream flows and soil conditions near normal.  
• James and Sioux Basin, South Dakota: Stream flow slightly below normal. Soils dry to very dry.  
• Platte Basin, Nebraska: Stream flow below normal.

Mainstream reservoirs near normal. Soil conditions moderately dry in the east to dry in the western basin.  
• Kansas Basin, Kansas: One-third to one-half normal stream flow. Reservoirs below normal. Soil moisture low, particularly in the west.  
• The main stem of the Missouri: Flow in the upper Missouri near normal but well below flows in 1978 and 1979. About one-half of the current flow coming from releases at Gavins Point Dam. Storage at the Gavins Point Dam could maintain normal stream flow for another year.

## PARADE OF CHAMPIONS ARIZONA NATIONAL LIVESTOCK SHOW



RESERVE GRAND CHAMPION HEREFORD BULL  
PW Domino 0008 ET, 9-22-79 by CH Domino 053  
PRUETT-WRAY CATTLE CO.  
Saaabe, Arizona



GRAND CHAMPION CHAROLAIS BULL  
RER Citation L253, 11-3-79 by LCR Impressive G560  
RAINBOW'S END RANCH  
Douglas, Arizona



RESERVE GRAND CHAMPION CHAROLAIS BULL  
RER Exeoutor L166, 4-28-79 by HCR Expectation 269  
RAINBOW'S END RANCH  
Douglas, Arizona



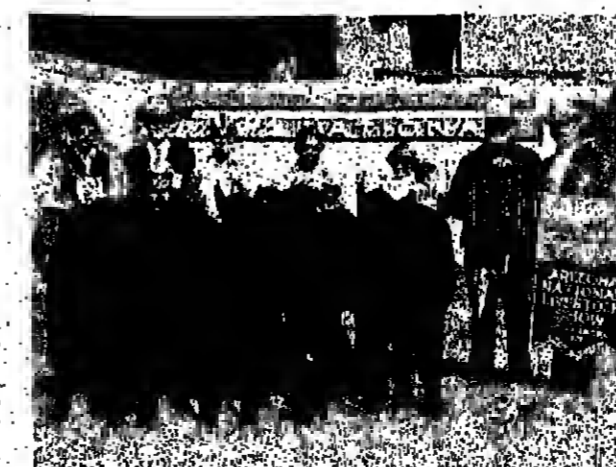
RESERVE GRAND CHAMPION CHAROLAIS HEIFER  
RER Royal Hanna L270, 11-5-79, by LCR Impressive G560  
RAINBOW'S END RANCH  
Douglas, Arizona



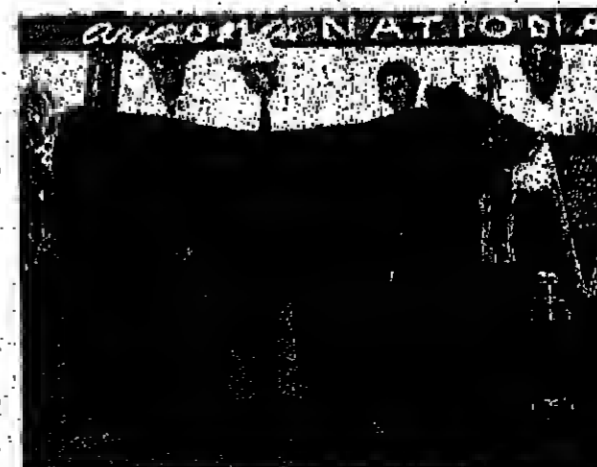
GRAND CHAMPION ANGUS HEIFER  
Nelson Protet, 2-22-79 by Nalaon Headstart  
NELSON ANGUS RANCH, JANNA NELSON  
Salmon, Idaho



RESERVE JUNIOR HEIFER CALF CHAMPION  
Nelson Ma Kaya 0212, 2-16-80 by Sir Williams Warrant  
NELSON ANGUS RANCH, JANNA NELSON  
Salmon, Idaho



GRAND CHAMPION PEN OF FEEDER STEERS  
Sired by Flocso  
MILE HIGH CHIANINA  
Denver, Colorado



GRAND CHAMPION LIMOUSIN HEIFER  
DLKZ 014L, 3-8-79 by Harvester  
KEITH KAMMERZELL  
Miliiken, Colorado  
Also had the Junior Champion Bull



GRAND CHAMPION LIMOUSIN BULL  
Pastis, 1-20-79 by Monleau  
LIMOUSIN WEST  
Pueblo, Colorado  
Also had the Reserve Champion Bull

PAID ADVERTISEMENT

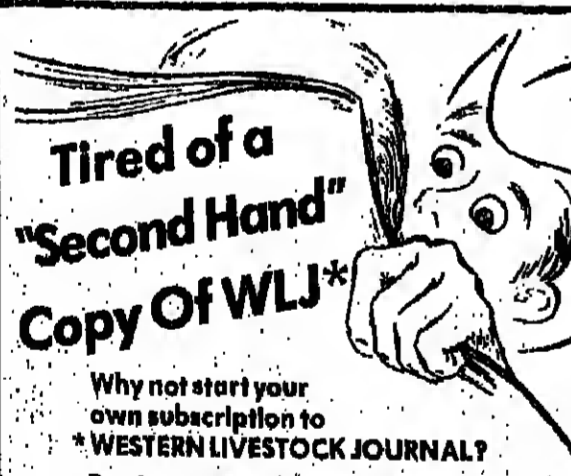
## Making a change... red tape wheels roll

In about 60 days, the USDA will begin the formal procedure that could ultimately change the U.S. beef grading system, a top Food Safety and Quality Service official said, according to CNS.

The official, FSQS deputy administrator, Michael Huggins, told CNS that the meat quality division would have an opinion paper identifying beef grading issues to present to top USDA officials in about two months. Presentation of the opinion paper is the first of a four-part process that USDA must go through to implement new or revised regulations.

Huggins said the paper would include the views of the various industry segments and consumers that would be affected by beef grading changes. FSQS has done only minimal preliminary work on grading changes at this time, he said, because the department is waiting until now USDA leadership takes effect later this month.

Speaking before a National Beef Grading Conference in Ames, Iowa, Huggins said grading ideas discussed during the three-day conference will have a significant impact on the FSQS decision-making process.



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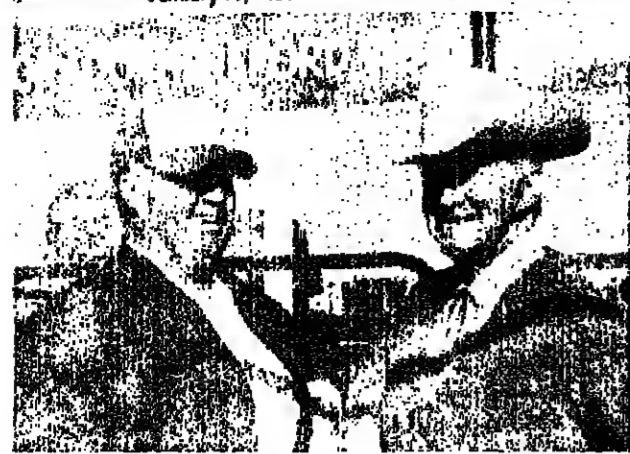
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**SHOW VISIT**—Taking time out for a visit during activities at the National Western Stock Show were Bob Miller (left), Elizabeth, Colo., president of the Colorado Herd Assn., and Mack Jones, formerly with the Western Livestock Journal. (Staff photo by Patti Thoral)

### Warning:

## Cool weather may bring "the big itch"

The first warning flag should go up with cooler weather. And the second will come when cattle begin scratching up against posts or suddenly flinching heads to lick an itch on their backsides.

These are signs stockmen should watch for as cooler weather steps up the probability of lice on cattle and subsequent economic loss to herd owners, cautions Dr. Robert Hartin, Oklahoma veterinarian.

Left unchecked, body lice or the more pernicious variety of bloodsucking lice can spread rapidly throughout a herd, Hartin said. Economic loss comes to cattleman from bruises and infections to animals who

scratch against fences or posts, through weight loss, possible decreased milk production and even anemia and sometimes death.

The milder form of these pests are body lice who live off the flakes and debris of skin, Hartin said.

But of far greater impact on the animals and to cattlemen economically are the bloodsucking lice. These penetrate the skins of animals, can cause extreme discomfort and often cause raw wounds and scabs from scratching.

Among cattlemen and animal health officials, the latter is sometimes called "the big itch." It is highly contagious and especially costly to cattlemen.

### Drug for scabies may halt dipping

An experimental compound, ivermectin, kills parasite found on livestock and could eliminate dipping vats used to treat cattle scabies, according to Garry Kuhl, Kansas State University beef specialist.

Kuhl, speaking at a Nebraska Cattle Feeders Seminar, said that a single injection of ivermectin, which is derived from streptomycin, will treat cattle for scabies, lice, ticks, grubs, lungworms and other internal parasites. He said it could save the livestock industry millions of dollars, according to CNS.

Presently, the treatment of cattle scabies in Nebraska alone costs cattlemen an estimated one million dollars a year.

The drug may be approved by the Federal Drug Administration for release sometime this year, Kuhl said.

Ivermectin is also effective in treating mange, lungworm, and a variety of other swine parasites and also parasites plaguing sheep, horses and dogs, Kuhl said.

The drug circulates in an animal's system for about eight days, Kuhl said. It has successfully controlled cattle scabies in a South Dakota feedlot experiment, he said, and appears to have no ill effects on mammals.

\*\*\* Nothing makes a woman feel older than meeting a bald-headed man who was two grades back of her in school.

## FORSTER FARMS

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50 Bulls

10 2-year-old bulls

5 Fall yearling bulls

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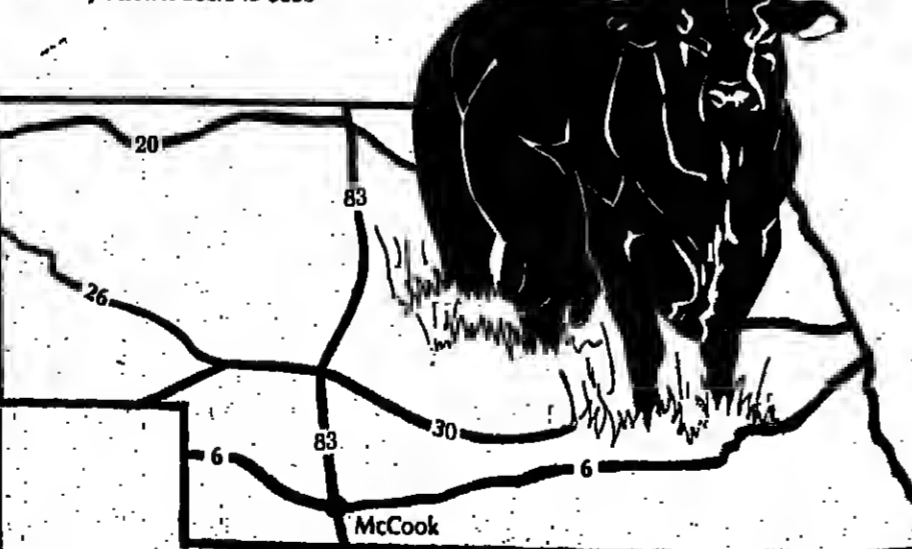
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1 mile east on Hwy 23 & 1 mile north of Smithfield

## Nebraska Brangus Breeders Association's

### 1st ANNUAL NEBRASKA BRANGUS BULL SALE

Saturday, February 14, 1981, 1:00 p.m.

Mid West Livestock Auction  
North Hwy. 83  
McCook, Nebraska 69001  
Sale Day Phone: 308/345-6030



**Selling 50 Rugged, Breeding Age Brangus Bulls**  
Selected with the Commercial Cowman in mind  
All Fertility, Bangs and T.B. Tested

All-weather airport with courtesy car available on sale day.

Sale Headquarters: Best Western Chief Motel, McCook, Nebraska 69001, 308/345-3700, reservations available.

Pre-Sale Party: Friday, February 13, 1981, 7:30 p.m.

For Further Information Call: Ron Patterson 402/332-3645, A.B. Ritchie 402/274-3438, L. Kuck 308/472-3289.

Sale includes consignments from Heart of America Brangus Breeders Association.

Mid West Livestock Auction: McCook, Nebraska 69001, Manager & Auctioneer: Stan Kug 308/345-3614, President: Don Klett 308/345-1764.

"Brangus—Breed of the 80's!"  
"Brangus—The Breed For All Seasons!"

### Market Roundup:

## New Year begins with little direction

IT'S MIDWAY THROUGH January and three weeks into the new year. Nearly everyone has spent the past weeks searching for clean signals freshening the next major trend in the livestock and meat industries, but there seems to be only hits and misses to work with. The markets are gearing for a new year but it is taking time to get the pumps reprinted and pointed in a definite direction, according to a CNS report.

**WASHINGTON AND OREGON** choice steers \$69-69.50. Choice heifers \$66.50-67.50. Southern San Joaquin and Nevada mostly choice steers \$68-70; good and choice \$68.50-70; long-fed Holsteins \$68-66.50; good \$67.50-58. Mostly choice Nevada steers \$68; good and choice \$68-68.50. Nevada mostly choice heifers \$65.50-66.50; good and choice \$65. California choice steers \$68-70; good and choice \$67-70. Choice heifers \$65.50-66.50; good and choice \$65-65.50. Arizona choice steers \$70; good and choice \$65-65.50. Good and choice heifers \$65.

Colorado mostly choice steers \$55-56.75. Choice heifers \$64-65. Western Kansas choice steers \$66.50; good and choice \$66-66.50. Choice heifers \$64-64.75. Eastern Kansas choice steers \$65.25-67. Choice heifers \$64.50-66; good and choice \$63. Eastern Nebraska choice steers \$64-64.75; good and choice \$63-64. Mostly choice heifers \$62-63.50. Montana choice steers \$66-67; good and choice \$65-66. Mostly choice heifers \$63-64.

**CALIFORNIA MD. FRAME #1** 450 lb. steers \$73-75; 700 lbs. \$72-50; 750-800 lbs. \$68. Md. frame #1 heifers 625-750 lbs. \$62-64.60; 700-725 lbs. \$66-68.10; 725-825 lbs. \$75-74.78; 825-900 lbs. \$72; 900-1000 lbs. \$71.50-73. Washington and Oregon md. and lg. frame #1 steers 520 lbs. \$75-75; 600 lbs. \$72; 700-825 lbs. \$71.50-73. 485 lb. heifers \$55.

Nevada md. frame #1 775-800 lb. steers \$68; 425 lb. steers \$82.50-84. Oklahoma md. frame #1 steers 300-400 lbs. \$82-85; 400-500 lbs. \$73-80; 500-600 lbs. \$70-75.50; 600-700 lbs. \$70.50-73.25; 700-800 lbs. \$69.50-72. Md. frame #1 heifers 300-400 lbs. \$86-88.50; 400-500 lbs. \$83.25-86.75; 500-730 lbs. \$82.50-85.50. Texas md. frame #1 steers 300-400 lbs. \$80-86; 400-500 lbs. \$75-80.50; 500-600 lbs. \$74.50-78.50; 600-700 lbs. \$72.75-74.50; 700-800 lbs. \$71.25-74; 800-900 lbs. \$69.25-71.50. Md. frame #1 heifers 300-400 lbs. \$88.50-73; 400-500 lbs. \$85-89; 500-600 lbs. \$82.40-67; 600-700 lbs. \$84-85.75; 700-800 lbs. \$80.50-83.50.

**KANSAS MD. FRAME #1** steers 300-400 lbs. \$83.50-87.50; 400-500 lbs. \$78.25-83.50; 500-600 lbs. \$72-76.75; 600-700 lbs. \$70.90-74.40; 700-800 lbs. \$70.25-74.30; 800-900 lbs. \$68.75-73.80; 900-1000 lbs. \$65.70-68.25. Md. frame #1 heifers 300-400 lbs. \$71.50-75.50; 400-500 lbs. \$68.90-74; 500-600 lbs. \$64-67.20; 600-700 lbs. \$63.25-66.50; 700-800 lbs. \$63.25-66.25; 800-900 lbs. \$55-58.25.

Colorado md. and lg. frame #1 steers 275-400 lbs. \$82-90; 400-500 lbs. \$78-90; 500-600 lbs. \$74-79; 625-775 lbs. \$71-75; 800-925 lbs. \$87-70. Md. and lg. frame #1 heifers 300-400 lbs. \$72-79; 400-500 lbs. \$68-78.50; 500-600 lbs. \$68.50-72.50; 600-700 lbs. \$62.75-67.75. Wyoming, western Nebraska, southwestern South Dakota, md. and lg. frame #1 steers 400-500 lbs. \$80.75-87.20; 700-775 lbs. \$70-74.10; 800-975 lbs. \$66.10-66.75. Heifers, md. and lg. frame #1 375-425 lbs. \$87.75-75; 725-800 lbs. \$83.75-67.20. Montana md. frame #1 steers 450-500 lbs. \$78-80; 600-700 lbs. \$72-75; 800-850 lbs. \$68-70; 900-1000 lbs. \$65-67. Md. frame #1 heifers 400-525 lbs. \$67-70; 550-650 lbs. \$68-86.

**SOUTHEAST STATES MD. FRAME #1** steers 200-300 lbs. \$79-92; 300-400 lbs. \$72-83; 400-500 lbs. \$87-76; 500-600 lbs. \$82-73; 600-700 lbs. \$58-69; 700-800 lbs. \$55-66. Md. frame #1 heifers 200-300 lbs. \$63-70; 300-400 lbs. \$57-67; 400-500 lbs. \$56-64; 600-600 lbs. \$55-62; 800-700 lbs. \$53-60.50.

Replacement cows, md. frame #1 young 700-900 lbs. \$63-62 per cwt. at \$400-400 par head; 900-1100 lbs. \$54.70-68.00. Md. frame #1 three to seven year old cows \$45-55 per cwt. md. frame #1 900-1100 lb. four to eight year old cows \$45-60 par head; md. and lg. frame #1 three to eight year old 1000 to 1300 lb. cows \$50-70.50 per head; few md. frame #1 three to seven year old 750-1050 lb. cows with 75-300 lb. calves \$50-850 par pair.

**MIDWEST SLAUGHTER LAMBS**, choice and prime 90-110 lbs. woolled \$51-55.25; 110-120 lbs. \$45-52; 120-130 lbs. \$43-45; some 120-140 lbs. \$38-43; choice and prime 90-115 lbs. shorn with No. 1 and 2 pelts \$51-57.90; 115-120 lbs. \$47-51; few 183-144 lbs. \$39-43.50; San Angelo good slaughter ewes \$27-30.32; few \$22-34; cull and ut. \$20-27.50. Midwest ut., and good \$15-20; cull \$10-15. Billings few cull to good \$18-20. San Angelo feeder lambs, choice and fancy \$5-75 lbs. \$85-72.75; 75-80 lbs. \$69-64.50; 80-100 lbs. \$55-60. Midwest choice and fancy 45-65 lbs. \$85-71; 75-82 lbs. \$55-61.50. Billings choice and fancy 70-85 lbs. \$54-58.25; 85-105 lbs. \$62-55. San Angelo stock ewes good mostly solid mouth \$88-46.40 per head; Billings good mixed aged \$45-50 per head; md. and good short term ewes \$25-37.50 per head; few choice and fancy 90-100 lb. whiteface ewe lambs \$58-58.50.

Sioux Falls, S.D., U.S. #1-2 20-30 lbs. \$24-50.30; 30-40 lbs. \$30-39.50; 40-50 lbs. \$35-50-42.50; 50-60 lbs. \$42-46.50; 60-70 lbs. \$44-52; 70-80 lbs. \$47-50-56; 80-100 lbs. \$54-57.

—JOYCE PALMER

### CENTRAL AUCTION ROUNDUP

[Report is as quoted by markets]

#### AMARILLO LIVESTOCK AUCTION

Amarillo, Texas, Jan. 12  
8,400 head received: Feeder steers, md. frame 1 215-235 lbs. \$58-65; 300-400 lbs. \$58-64; 400-500 lbs. \$75-80.1; 500-600 lbs. \$71-75; 600-700 lbs. \$67-72.80; 700-800 lbs. \$67-72.80; 800-900 lbs. \$67-72.80; 900-1000 lbs. \$67-72.80; 1000-1100 lbs. \$67-72.80; 1100-1200 lbs. \$67-72.80; 1200-1300 lbs. \$67-72.80; 1300-1400 lbs. \$67-72.80; 1400-1500 lbs. \$67-72.80; 1500-1600 lbs. \$67-72.80; 1600-1700 lbs. \$67-72.80; 1700-1800 lbs. \$67-72.80; 1800-1900 lbs. \$67-72.80; 1900-2000 lbs. \$67-72.80; 2000-2100 lbs. \$67-72.80; 2100-2200 lbs. \$67-72.80; 2200-2300 lbs. \$67-72.80; 2300-2400 lbs. \$67-72.80; 2400-2500 lbs. \$67-72.80; 2500-2600 lbs. \$67-72.80; 2600-2700 lbs. \$67-72.80; 2700-2800 lbs. \$67-72.80; 2800-2900 lbs. \$67-72.80; 2900-3000 lbs. \$67-72.80; 3000-3100 lbs. \$67-72.80; 3100-3200 lbs. \$67-72.80; 3200-3300 lbs. \$67-72.80; 3300-3400 lbs. \$67-72.80; 3400-3500 lbs. \$67-72.80; 3500-3600 lbs. \$67-72.80; 3600-3700 lbs. \$67-72.80; 3700-3800 lbs. \$67-72.80; 3800-3900 lbs. \$67-72.80; 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**DOGS** 9  
100% Pure Blooded Border Collies  
For sale. Excellent working dogs.  
Call: 214-498-2512. Will air mail.

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Trained, working stockdogs.  
Australian Shepherds, Blue  
Heislers and Border Collies.  
Pups and started dogs also. RL,  
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30 Years Experience  
Auction Means Action  
Have Plans Will Fly  
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WILL PAY PREMIUM top  
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exotic cross cows. Rio Vista will  
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**60 ACRE**.....  
Irrigated ranch, custom home,  
3 barns, shop, apartment, feed  
barn, stock room, fuel storage,  
4 acre orchard, 4 irrigated pas-  
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gation Oldfater water, pump back  
system, walnut trees. Write:  
W.D. Ranch, RL 1, Box 3148,  
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\$100,000 down with interest only  
for 2 years.

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1,150 Acres (Call)  
\$985,000.00  
120 Acres (Call)  
\$215,000.00  
1,800 Acres (Pasture Cattle)  
\$325,000.00  
300 Acres (Allstate)  
\$985,000.00  
725 Acres (Allstate)  
\$1,165,000.00  
100 Acres (Allstate)  
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170 Acres (Allstate)  
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Ranch Broker  
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**GOOSE LAKE RANCH**  
Over 4,500 west coast acres  
developed. 1,500 riparian  
fronting Oregon's Goose Lake  
and 2,000 deeded, making it  
one of Oregon's finest working  
cattle ranches. 400 acres of  
alfalfa and wheat under wheat  
irrigation. Additional 220  
acres of farm, water, pasture,  
subdivided, water, extensive  
water, development and  
seeding recently completed.  
Good inventory of equipment  
included. 2 beautiful homes  
with swimming pools and corals.  
Also available: 1,000 acre  
stocking property and 38 acre  
pasture in 100 Goose Lake area.  
Price: \$1,100,000. Exclusive  
listing.

**PACIFIC Farms and Ranches** 13  
**6,300 Acre Cattle Ranch** • \$1,850,000  
347 Acre Row Crop • \$1,500,000  
316 Acre Row Crop • \$1,265,000  
Please call for details on above ranches and other large cattle  
ranches.

**AI Pivetti**  
1701 First St., Hollister, CA 95023  
PHONE: 408/637-5588  
**FOR EXCHANGE/SALE** by  
owner. 5 acres, 3 bedrooms, den,  
level land, white fences, orchard  
714/676-5167.

**EASTERN OREGON RIVER RANCHES**  
Two ranches separated by one mile of government land on state  
highway 4 ways to divide to suit buyer. End up with 5,000 to 1,000  
cow units or farming units with alfalfa producing 5,000 tons/year,  
wheat 1300 acres planted to Stephen and pasture for smaller cow  
unit. Each ranch has 2 homes, barns, shops, corals, scales and  
other excellent improvements. Total acreage approximately 5,500  
acres including BLM. Prices from \$1,250,000 to \$3,250,000.  
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**1,000 ACRE EASTERN Oregon**  
ranch 3 miles to town. Approx-  
imately 450 wheat land, balance  
good hunch grass. 503/676-  
9833. Best terms.

**KLAMATH COUNTY RANCH**  
2,000 Acres full 600 irrigated, 500 sprinkler irrigated, 400 hay,  
4 wells, 2 three bedroom homes, excellent shop, 2 hay sheds,  
machinery shed, feedlot, located 18 miles east of Klamath Falls,  
Oregon. Excellent all weather airport, schools and service very  
convenient. Priced to sell at \$1,200 per acre.

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Office: 503/883-3441  
Bill Noonan, 884-7873, Evening

**CENTRAL OREGON RANCH**  
4 Live cows, numerous springs and wells supply line 1,000 cow/calf  
ranch. 20,000 deeded acres, 200 hay land, 800 irrigated. Adjoins  
National Forest, grazing permits, some timber. 2 homes, barns,  
shops and sheds, irrigation and farming equipment. \$2,700,000, 00s.  
Call: John Bennett  
**GOODWIN BROTHERS, INC., REALTORS**  
P.O. Box 475, Sisters, OR 97759  
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Call us for information on Oregon ranches, all stars.

**It's a One-Stop-Shop**  
**WLJ CLASSIFIED CORRAL**  
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Road 20 and RR, Union, CA  
95833  
Create Interest!

**60 ACRES:** Scenic beauty, pine  
and meadow pasture, 10 acre  
irrigated pasture, 2  
wells, sprinkler lines, pump  
back system. This is a dandy  
buy. \$74,500. Easy terms.  
**600 ACRES:** Free water right  
from Sprague River for 500  
acres. Permanent pasture  
and hayland, room for more  
development. Good corals.  
Excellent pine tree area for  
homesite. This is a high gain  
area, an excellent pasture  
ranch and priced right. Top  
duck and geese hunting.  
\$585,000.  
**600 ACRES:** Approximately 200  
acres irrigated, 400 acres  
pasture, alfalfa, part meadow, 450  
acres full dryland crops.  
Spring fed lake with big rain-  
bow trout. Highway frontage.  
Some good high ground for  
winter feeding and sheltered  
sitting areas. Large, older  
home, outbuildings and corals.  
\$475,000 with terms.  
**2,400 DEEDED ACRES:** Borders  
U.S. Forest and BLM grazing  
permits. Free water from river  
running through ranch plus 2  
high volume irrigating wells.  
Lots of water and approxi-  
mately 350 acres more can  
be developed. Approximately  
950 acres plus under gravity  
irrigation, most in improved  
pasture or hayland. Paved  
road, school bus, mail ser-  
vice. Newer 4 bedroom ranch  
home, machine shed, 3 barns,  
excellent working corals,  
pools and chutes. Ranch has  
septic setting with many re-  
creational amenities. Close to  
state university area, fine fishing,  
swimming, mountain climbing,  
air conditioning, trophies, Jim-  
my Air range, lots of living space,  
lots of built-in. Apartment of  
four units. This place has every  
thing.

**428 Acres**  
Barns are under good roads,  
new pole corals with Powder  
River Alley gates and squeeze  
chutes, nicely remodeled ranch  
home. Ranch has well, 350 acres  
of high producing hay and pas-  
ture under irrigation. One mile  
of paved country road frontage,  
close to Eagle Point.  
**\$279,000**  
637 Acres, rolling oak and pine  
with about 100 acres of open  
meadows, 2 springs, 2 wells,  
pasture, 2 bedroom home, 18 miles  
north of Medford.  
**\$350,000**  
Farm equipment included in  
sale. Rogue River frontage, 3  
springs, 200 acres of alfalfa and  
pasture, 1,000 acres of 1,600  
ac. ft. 3 bedroom, 2 bath home,  
air conditioning, trophies, Jim-  
my Air range, lots of living space,  
lots of built-in. Apartment of  
four units. This place has every  
thing.  
**CASCADE**  
Real Estate  
Eagle Point, Oregon  
PHONE: 503/826-3886  
Home Phone: Bob, 454-  
1742; Phil, 425-4544;  
Don, 425-2735

**PACIFIC Farms and Ranches** 13  
**PACIFIC Farms and Ranches** 13  
**PACIFIC Farms and Ranches** 13  
**PACIFIC Farms and Ranches** 13

**BEND OREGON CATTLE RANCH**  
Run 500 Cows Year Around  
DEEDED: Approximately 4,800 acres.  
IRRIGATED: Approximately 370 acres. Main Deschutes River/Canal flows through ranch.  
PERMIT: All private, long term, established history.  
IMPROVEMENTS: Attractive, large, spacious, 4,000 ft. home, fireplace, tile roof. Smaller similar  
employee's home nearby.  
SCHOOLS: Excellent Bend schools, including college, all sports, high scholastic, bus to door.  
RECREATION: In the heart of fishing, hunting and skiing.  
EQUIPMENT: Full line included.  
TAXES: \$3,800.  
PRICE: \$1,500,000. Terms to qualified buyer, 20% down balance to be arranged.

**OREGON CATTLE RANCH**  
NORTHERN STEENS MOUNTAINS  
(The Horseahoe "T" Ranch)  
Capacity: Runs 1,000 Cows Year Around  
DEEDED: Approximately 6,700 acres.  
IRRIGATED: 700 Acres plus—More can be developed.  
FREE WATER: Year around. 2 wells on ranch. 800 tons of hay.  
PERMIT: Private permit holding ranch.  
IMPROVEMENTS: Beautiful, 3,200 foot rancher's home, huge fireplace, double door alea en-  
try, gracious center hall, 3,200 sq. ft. setting. Excellent employee's dwellings.  
CORRALS-FEEDLOTS: 600 pens, railroad tie and 2 x 8 construction. 500 head feedlot, concrete  
bunks, Murphy Scales.  
SCHOOLS: Good school facilities, all sports, high scholastic.  
HUNTING AND FISHING: Trout, birds, mule deer in abundance.  
EQUIPMENT: Full line of equipment included.  
PRICE: \$2,250,000. Terms to qualified buyer.  
This is one of the best ranches in one of the better areas of Oregon with excellent potential to  
increase capacity. Cattle available at private treaty.

**EASTERN OREGON CATTLE RANCH**  
(The Turnbull Feed Ranch)  
DEEDED: Approximately 8,000 acres.  
IRRIGATED: Approximately 1,200 acres.  
FREE WATER: Source of irrigation water.  
PERMIT: Private permit holding ranch.  
IMPROVEMENTS: 3 bedroom house, 3,200 sq. ft. center cook kitchen, partially unfinished. Bunk  
house, corals, shed, barn, etc.  
SCHOOLS: Bend, excellent.  
RECREATION: Best fishing, hunting, skiing.  
TAXES: \$900 per year.  
PRICE: \$450,000, 20% down. Balance to be arranged.

**CATTLE AND HAY RANCH**  
Band, Oregon  
DEEDED: Approximately 480 acres.  
IRRIGATED: Approximately 15.  
PERMIT: 100 Pair can be increased.  
HAY: Puts up 360 ton.  
IMPROVEMENTS: 3 bedroom house, 3,200 sq. ft. center cook kitchen, partially unfinished. Bunk  
house, corals, shed, barn, etc.  
SCHOOLS: Bend, excellent.  
RECREATION: Best fishing, hunting, skiing.  
TAXES: \$900 per year.  
PRICE: \$450,000, 20% down. Balance to be arranged.

**Call or Write: DICK ELLIOTT**  
**ARNIE SWANSON TOWN & COUNTRY REALTY**  
P.O. Box 587 • Bend, Oregon 97701  
PH: 503/382-3333 • 503/382-3872, Even.

**RANCHES FOR SALE**  
LOCATED SOUTHEASTERN WASHINGTON  
1. 4,500 Acres deeded, 40,000 acres leased, long term dryland cat-  
tle ranch with and springs. \$550,000.  
2. 320 Acres undeveloped orchard or grape land or other crops.  
\$325,000.  
3. 200 Acres all in alfalfa, 8-10 ton could be orchard. \$350,000.  
4. 440 Acres irrigated, early potatoes. 1980 free water. \$528,000.  
5. 360 Acres irrigated hay and grain. 1980 long term development  
lease. \$125,000.  
6. 1,200 Acres cattle and hay ranch, sub-irrigated and circles. Free  
water. \$700,000.  
7. 2,500 Acres cattle ranch, main headquarters, 3 large streams,  
feedlot, two, 3 bedroom home, corals, Show place along highway. 1/2 ton feeding area. Free water. \$2,850,000.  
8. 90 Acres undeveloped. Irrigation water available. 1 bedroom  
house. \$63,000.  
9. 180 Acres trailer, eight, potential planted and ready. 75% developed.  
\$180,000.  
10. 250 Acres irrigated row crop land, #1 and #2 soils, 8K 48 Columbia  
800n project. \$625,000.  
11. 160 Acres. Fg O L P. \$400,000.  
12. 75 Acres irrigated in city limits. Ready for development, shop-  
ping center and etc. \$750,000.  
All 12 Farms Connect.  
Private Owners Sale.  
Contact: Box 482, Othello, WA 99344  
PHONE: 609/488-5108; 488-2385; 488-4747

**STOCK RANCH**  
260 Acres, 75 acres irrigated  
with free water, balance hill  
pasture with oak trees. 2  
homes and 3 barns. Walking  
distance to Flournoy state  
pool office and school. 13  
miles west of Corning, Cal-  
ifornia on paved road. Price  
\$350,000. Retire here.  
**RAY COX, Realtor**  
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PHONE: 918/833-5580  
"Anytime"

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Find all the details re-  
garding MAD above the  
Classified Corral's col-  
umn.  
**SECLUDED RANCH**  
1,900 Acres, mt, approximately  
half developed in alfalfa, grass  
or grain. Other half could be  
developed. 5 irrigated wells with  
wheel lines and pivot. 2 mobile  
homes, bunk house, 10,000  
stock corals, corals.  
**Robert Utley—Broker**  
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2,385 Acres ranch alfalfa, pump  
station, pasture, pump, pump  
pools, hay barn, working corals,  
livestock scale, beautiful  
outdoor, ranch style home.  
Fenced and cross fenced. Ap-  
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Ideal dairy potential. Three, 80  
acre parcels. Super terms.  
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**GOOSE LAKE RANCH**  
Over 4,500 west coast acres  
developed. 1,500 riparian  
fronting Oregon's Goose Lake  
and 2,000 deeded, making it  
one of Oregon's finest working  
cattle ranches. 400 acres of  
alfalfa and wheat under wheat  
irrigation. Additional 220  
acres of farm, water, pasture,  
subdivided, water, extensive  
water, development and  
seeding recently completed.  
Good inventory of equipment  
included. 2 beautiful homes  
with swimming pools and corals.  
Also available: 1,000 acre  
stocking property and 38 acre  
pasture in 100 Goose Lake area.  
Price: \$1,100,000. Exclusive  
listing.

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140 ACRE RANCH for sale or  
lease. Fed and. Call in central  
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Cloverland Realty Co., Inc., 389  
W. F. St., Ukiah, CA 95561.  
Phone: 209/847-1731.

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counselors, 7 buildings totaling  
43,000 sq. ft. 31 acres all per-  
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000.  
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ing replies.

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Over 5,700 deeded acres, approximately 800 acres developed into  
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grain. 5 irrigation wells, pumps and wheel lines, corals and other  
outbuildings, mobile home with built-in. BLM range permit for 1,430  
AUM's. 7,300 acres of state land owned, some seeded to created  
wheel grass.

**FAVELL-UTLEY, CORP.**  
PHONE: 503/847-2181  
Call: Cerro Flck, 503/847-4438, evenings

**COMPACT 480 ACRE PRODUCER**  
Approximately 100 acres alfalfa and 50 acres grain under wheels.  
Additional 320 acres flood irrigated pasture. River through ranch  
allows for cheap water. Good home and improvements. Presently  
selling 500 tone alfalfa, running 75 cow year around and put strong  
summer gain on 230 steers. A one family operation close to schools  
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\$600,000 includes wheel line system—owner financing to qualified  
buyer.  
This and other ranches.  
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**INTERMOUNTAIN Farms and Ranches** 13  
**INTERMOUNTAIN Farms and Ranches** 13

**NEVADA CATTLE AND SHEEP RANCH**  
1,000 Cattle and 5,000 sheep unit. A combination of 2 historic  
ranches. Makes for one of Nevada's most economical livestock  
operations. 4,500 deeded acres, 3,000 plus gallons per minute con-  
tinuous flowing spring. 240 acres excellent farm ground. High re-  
ducing irrigated and sub-irrigated native meadows. Excellent im-  
provements at headquarters. Full line of newly new equipment.  
Lambing ground less than 20 miles from headquarters. 5,000  
summer sheep permit in Ruby Mountains. Abundant sheep winter  
range. 750 cattle permit on 8LM plus 120 head feedlot permit. Priced  
at \$2,400,000 with terms to qualified buyer. Livestock available at  
market price. A real family ranch with all services available. In-  
cluding schools, electricity and phone service.  
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**HISTORIC CENTRAL NEVADA CATTLE RANCH**  
Located 80 miles southwest of Elko, Nevada and 32 miles north of  
Eureka, Nevada. In an ideal setting. Electricity, phone and school  
bus service. Excellent improvements, modern owners home plus  
many living facilities for ranch hand. Combination modern, well  
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3,000 gallons per minute continuous flowing water spring irri-  
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consisting of 240 acres cultivated. High producing irrigation mead-  
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native range. 750 head May 1st to September. Capacity 750 mother  
cows plus 250 to 400 yearlings. An outstanding family ranch.  
Priced: \$1,800,000 including a complete line of nearly new equip-  
ment. Cattle available at market price.  
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**BUY NEVADA RANCHES**  
Through Reliable Knowledge of the industry  
2,200 Head 9 Unit, priced right. Central Nevada  
ranch has thousands of acres green meadow,  
good range and water rights. A going concern  
for 2.5 million including equipment. Cattle at  
market.  
Runs 4,000 steers on this good range. Has 4,500  
acres deeded with meadows, water rights and  
grazing. Also has 2,000 head forest permit for  
summer. Priced to sell at 2.1 million.  
Ranchers dream: 12,000 deeded at foot of mountains range with ex-  
cellent water, nice meadows and good improvements. 1,600 head  
capacity. Run 60% inside. Priced at 2.5 million including equipment.  
15,000 Deeded acres, 2,000 acres water right on Humboldt River, with  
far grazing permit for 700 head of cows. Huge farming potential.  
Priced at 2.5 million with super terms.  
400 Head cattle. 1,400 acres with 2 good streams, nice improvements  
in beautiful setting. Asking price \$810,000 including equipment.

**PIONEER BROKERAGE**  
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We also have several good farms for sale.  
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Contact: Don Bowman, 702/423-8106  
or Joe Dahl, 423-8325  
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680 ACRE FARM  
Irrigated from Snake, 300 in hay.  
40 in barley. Domestic, irrigation  
well, 135 degrees F. \$1,000/acre.  
low down, assume and terms, can  
be split or more available. 60  
miles from Boise. Call: Russell,  
Oreano, UT, Murphy, ID 83650.

**SOUTHERN OREGON**  
Ranches, Farms and Recrea-  
tional Property.  
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**ROCKSTOOL-HANSEN**  
Real Estate Co.  
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**EASTERN OREGON RANCH**  
800 Acres with 500 acres as-  
signed water plus irrigation well.  
8 wheel lines, hand sets, 4 bed-  
room home, barn, corals, etc.  
\$600,000 on contract or cash  
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**DO YOU NEED ALFALFA PRODUCTION THIS YEAR?**  
We have it in northern Nevada.  
900 acres, 840 irrigated with 4  
wells (1,200 gpm total), 4 pivot  
and 2 trimetics. 4 mobile homes  
and a large shop. 2 swathers, 2  
balers, 2 tractors and miscel-  
laneous equipment included for  
only \$1,302 per acre. (\$1,250,000).  
Exchange only. Ask for our bro-  
chure.

**LEQUIEU & LEQUIEU, INC.**  
Realtors  
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Klamath Falls, OR 97601  
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**450 PAIR RANCH**  
Located at Lima, Montana, 4,355  
deeded acres, nice 4 bedroom  
home, cheap water, low operat-  
ing cost, year around operation.  
Call for complete details.  
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David Price

**UNIQUE**  
Energy-free, combination cattle  
and sheep ranch set in the  
most beautiful mountain valley  
imaginable. For some one look-  
ing for a really big operation with  
the potential for even greater  
development you must see to  
believe this ranch.  
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has the listings, the buyers and the office network to give you fast action. That's Western Farm!  
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**SOUTHEASTERN WYOMING FARMS & RANCHES**  
1,250 Acre farm/ranch combination near Carpenter. 270 acres under  
center pivot irrigation, balance in grass. Good improvements.  
813 Acre hay and sod farm north of Cheyenne. 587 acres are irri-  
gated under 4 wells and center pivot sprinklers producing top qual-  
ity alfalfa hay and blue grass sod. Shows outstanding cash flow  
plus depreciation. Owner financing.

2,160 Acre ranch north of Fort Laramie. Has 330 acres in wheat and  
100 acres in dryland hay. Ideal place for 100 plus cows and/or  
horse operation.  
3,400 Acre ranch at Tia Siding. 1,800 acres deeded, with balance in  
leasage. 150 acres flood irrigated in native hay. Owner financing.

680 Acres near the mountains northwest of Cheyenne. Has 50 acres  
flood irrigated and older set of improvements.  
910 Acre farm near Pine Bluffs. 100 acres are irrigated under slide  
rills with balance in wheat and pasture.  
185 Acres of scenic building sites in the mountains between  
Cheyenne and Laramie. Owner financing.  
400 Acres of wheat and grass and beautiful improvements close to  
Cheyenne. Has development possibilities.  
Two large summer yearling operations that will run from 4,000 to  
8,000 head. One could easily be converted to a cow/calf operation.  
Owner financing available.  
**DEAN REALTY**  
Farm & Ranch Department  
2320 Dell Ranch Blvd., Cheyenne, WY 82001  
PHONE: 307/832-6481  
Hal Hansen, Associate Broker, 307/832-8183

**INTERMOUNTAIN Farms and Ranches** 13  
400 HEAD COW OUTFIT with  
year around grazing. Trail from  
summer to winter pastures.  
2,050 acres deeded. \$550,000.  
Owner will carry contract. South-  
east Utah.

**YEARSLEY REALTY**  
Offer The West  
In Farm, Ranches and  
Commercial Property  
Call: Bill Yearsley  
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**COMPLETE HORSE FARM**  
For training, boarding, showing, roping and rodeo on 80 acres. 4  
miles from Twin Falls. Indoor and outdoor arena. 31 box stall,  
large hay barn, machine shed, 3 homes, 80 acres. Good hay.  
\$580,000. Terms.

**TERRIFIC DRYLAND FARM**  
And pasture outfit. Ample mole-  
rator, wonderful deep soil, beauti-  
ful location. 800 acres deeded,  
180 state leased. Only \$285,000  
with easy down and good terms.  
**YEARSLEY REALTY**  
Call: Bill Yearsley  
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Menard, ID 83434

**FOR SALE BY OWNER**  
**NORTHEASTERN NEVADA**  
750 Pairs plus carry calves over to yearlings.  
Approximately 4,000 acres deeded.  
Approximately 2,000 acres irrigated with artesian water (no power  
bills).  
Two, good homes, both with lawns and plenty of shade trees.  
New, 100 x 80 machine shop, with airplane hangar in one corner.  
New horse barn.  
New calving barn and warehouse.  
BLM permit for 750 pairs adjoins ranch deeded ground.  
Fully stocked with one horn, native cattle available at market value.  
Full line of equipment included in asking price of \$1,800,000.  
Interested principle only (no brokers) contact owner at:  
702/765-0711.

**MOUNTAIN Farms and Ranches** 13  
**MOUNTAIN Farms and Ranches** 13

**SPECTACULAR MOUNTAIN VALLEY RANCH**  
Adjoining permits make this a  
"horse back ranch"  
handling 900 to 1,000 cow/calf  
or owner would consider partial  
sale. Lively mountain stream  
ranching land of ranch, turn-  
table abundant water and excellent  
fishing.  
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Monte Vista, CO 81444

**MILL IRON RANCH**  
9,800 Acres, 85% deeded, over  
500 acres irrigated. Lots of shade  
shelter and warm artesian water  
make this an excellent 500 head  
operation. Minorale included.  
\$1,175,000. Terms.  
**K & W RANCH**  
13,000 Acres, 78% deeded. Over  
5 miles Yellowstone River front-  
age. Excellent grass, artesian  
water and fencing. Very ac-  
commodating. Capacity  
could be increased above the  
present 500 animal units with  
irrigation development.  
\$1,285,000. Terms.  
**FARM LAND**  
5,780 Acres, 89% deeded. Ap-  
proximately 1,000 acres now  
being farmed, another 2,000  
acres can be broken. Soils are  
deep, loamy types and the area  
averages over 14 inches mois-  
ture during growing season. Ex-  
cellent grass and stock water.  
\$825,000. Terms.

**WESTERN COLORADO**  
1,900 Deeded acres near Piceance Basin combines with 22,888  
BLM allotment to provide summer range for 800 summer  
yearlings. 41th in the heart of oil shale development.  
Ideal for the registered cattlemen: 630 acres, good improvement  
700 acres irrigated. A good farm for today with a future of possible  
development.  
A cowboy's ranch with 5,200 deeded acres, 64,000 acre BLM  
range, all contiguous. Cows range from winter deeded grazing to  
summer high country complete with 10 acre mountain trout lake.  
Livestockman's wintering headquarters. 177 acres with 500 head  
feedlot, 157 acres irrigated, cement ditches.  
Waiting for a horseman? 90 acres with home site, good location  
near fast developing Grand Junction. Ideal location for horse  
boarding or training facility.  
Alfalfa hay farm, 1,000 plus acres, excellent water, beautiful setting  
overlooking river and shadowed by majestic mountains.  
Located east of Delta, Colorado.  
Executive retreat on 80 acres near Ouray, Colorado.

**benchmark Investments of Colorado, Inc.**  
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PHONE: 303/245-9410  
Providing professional service for the agricultural producer and investor.  
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**MOUNTAIN Farms and Ranches 13**

**HIGHLY PRODUCTIVE**  
Cattle and hay ranch at foot of San Juan. New barn, metal shed, great working corrals and calving sheds. Lighted horse arena. Excellent water rights. Would handle 200 cows year around.

CALL: 303/852-2988  
or Mr. RANCH REALTY  
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Monte Vista, CO 81144

**MOUNTAIN Farms and Ranches 13**

**140 ACRES** cattle-horse ranch with unique, 4 bedroom ranch house, 41' x 42' horse barn and shed row. Small stream runs near house with trees, rolling hills, home is energy efficient with 2 woodburning furnaces, great barn wood paneling. Additional acreage available for lease or sale. Airstrip 8 miles. Between Colorado Springs and Denver.

Mary Linda Miller  
**TRI-LAKES REALTY**  
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Colorado Springs, CO 80907  
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**MOUNTAIN Farms and Ranches 13**

**GUNNISON VALLEY**  
520 Acres of tall, native grass. This seasonal range is enhanced with grass of open and pine. Phosphate access. ONLY \$130,000 with liberal owner financing.

40 Acres in the rolling sage country with seasonal access. Good spring, \$11,500.

74 Acres near Blue Mesa Lake, part wooded, spring and utilities nearby. \$50,000 with terms available.

88 Acres with 50% irrigated, 1,895 deeded water rights, 200 feet of creek, functional set of improvements and frontage on county road. \$130,000.

1,090 Acres with over 3 miles of trout streams, 300 acres irrigated hay meadow and good improvements. Truly a scenic mountain showplace.

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**WE KNOW COLORADO RANCHES AND FARMS**  
Any size: 80 to 5,000 acres. Western slope, trees, mountains, hunting with streams or rivers for fishing. Close to skiing. Eastern plains or foothills, dryland wheat or irrigation farms. No matter the size or type, if you want a ranch or farm to live on, you are looking for it. We don't have it we can help you find it.

"LET US PUT YOUR BRAND ON A RANCH"

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P.O. Box 1000  
Boulder, CO 80502

**MOUNTAIN Farms and Ranches 13**

**WESTERN FARM Mgt. Co.**  
Tom Pandleton  
2621 E. Camelback  
Suite 100  
Phoenix, AZ 85019  
Days: 602/966-3612  
Evenings: 602/962-3012

**SOUTHWEST Farms and Ranches 13**

**MOUNTAIN RANCH WITH RIVER FRONTAGE**  
43 Acres irrigated  
• 1 1/2 hours from Scottsdale  
• Impressive improvements  
• 270 Head grown cattle  
• Equipment included  
PRICE: \$1,000,000. Terms available

**Western Farm Mgt. Co.**  
Tom Pandleton  
2621 E. Camelback  
Suite 100  
Phoenix, AZ 85019  
Days: 602/966-3612  
Evenings: 602/962-3012

**SOUTHWEST Farms and Ranches 13**

**NORTHEAST TEXAS**  
45 Inches Annual Rainfall  
800 Acres all tillable. 1 mile from town, \$896 per acre.  
760 Acres ranch, metal corral, 1 hay barn, \$650 per acre, terms.  
922 Acre farm 90% in cultivation. Frame home, \$800 per acre, terms.  
1,700 Acres could be excellent wheat and ester operation. \$800 per acre with terms.

Other terms and ranches available.  
Call or Write:  
**FARMS UNLIMITED**  
1850 Lamar Ave., Paris, TX 75450  
PHONE: 214/785-7649  
Charles S. Allen, Realtor

**BUSINESS INVESTMENTS 19**

**EMBRYO TRANSFER** partner wanted. Your ranch, our embryo transfers. Call Dr. Borman or Dr. Murray. 316/961-8663.

**COTTONSEED MEAL** protein block with Solonolun and Phosphorus. Stan Taylor. 503/947-4699.

850 TONS, good stock hay in Klamath County, Oregon. Can be used on ranch or feed. Call: 503/736-5062.

40 TONS OAT HAY, good color, high grain content. Reasonable price. 916/284-7228 or 714/495-4418.

**FENCE POSTS 21**

**TIES & CORRAL 80ARD**  
Treated 6x6, 8x8, 10x10, 12x12, 14x14, 16x16, 18x18, 20x20, 22x22, 24x24, 26x26, 28x28, 30x30, 32x32, 34x34, 36x36, 38x38, 40x40, 42x42, 44x44, 46x46, 48x48, 50x50, 52x52, 54x54, 56x56, 58x58, 60x60, 62x62, 64x64, 66x66, 68x68, 70x70, 72x72, 74x74, 76x76, 78x78, 80x80, 82x82, 84x84, 86x86, 88x88, 90x90, 92x92, 94x94, 96x96, 98x98, 100x100, 102x102, 104x104, 106x106, 108x108, 110x110, 112x112, 114x114, 116x116, 118x118, 120x120, 122x122, 124x124, 126x126, 128x128, 130x130, 132x132, 134x134, 136x136, 138x138, 140x140, 142x142, 144x144, 146x146, 148x148, 150x150, 152x152, 154x154, 156x156, 158x158, 160x160, 162x162, 164x164, 166x166, 168x168, 170x170, 172x172, 174x174, 176x176, 178x178, 180x180, 182x182, 184x184, 186x186, 188x188, 190x190, 192x192, 194x194, 196x196, 198x198, 200x200, 202x202, 204x204, 206x206, 208x208, 210x210, 212x212, 214x214, 216x216, 218x218, 220x220, 222x222, 224x224, 226x226, 228x228, 230x230, 232x232, 234x234, 236x236, 238x238, 240x240, 242x242, 244x244, 246x246, 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692x692, 694x694, 696x696, 698x698, 700x700, 702x702, 704x704, 706x706, 708x708, 710x710, 712x712, 714x714, 716x716, 718x718, 720x720, 722x722, 724x724, 726x726, 728x728, 730x730, 732x732, 734x734, 736x736, 738x738, 740x740, 742x742, 744x744, 746x746, 748x748, 750x750, 752x752, 754x754, 756x756, 758x758, 760x760, 762x762, 764x764, 766x766, 768x768, 770x770, 772x772, 774x774, 776x776, 778x778, 780x780, 782x782, 784x784, 786x786, 788x788, 790x790, 792x792, 794x794, 796x796, 798x798, 800x800, 802x802, 804x804, 806x806, 808x808, 810x810, 812x812, 814x814, 816x816, 818x818, 820x820, 822x822, 824x824, 826x826, 828x828, 830x830, 832x832, 834x834, 836x836, 838x838, 840x840, 842x842, 844x844, 846x846, 848x848, 850x850, 852x852, 854x854, 856x856, 858x858, 860x860, 862x862, 864x864, 866x866, 868x868, 870x870, 872x872, 874x874, 876x876, 878x878, 880x880, 882x882, 884x884, 886x886, 888x888, 890x890, 892x892, 894x894, 896x896, 898x898, 900x900, 902x902, 904x904, 906x906, 908x908, 910x910, 912x912, 914x914, 916x916, 918x918, 920x920, 922x922, 924x924, 926x926, 928x928, 930x930, 932x932, 934x934, 936x936, 938x938, 940x940, 942x942, 944x944, 946x946, 948x948, 950x950, 952x952, 954x954, 956x956, 958x958, 960x960, 962x962, 964x964, 966x966, 968x968, 970x970, 972x972, 974x974, 976x976, 978x978, 980x980, 982x982, 984x984, 986x986, 988x988, 990x990, 992x992, 994x994, 996x996, 998x998, 1000x1000, 1002x1002, 1004x1004, 1006x1006, 1008x1008, 1010x1010, 1012x1012, 1014x1014, 1016x1016, 1018x1018, 1020x1020, 1022x1022, 1024x1024, 1026x1026, 1028x1028, 1030x1030, 1032x1032, 1034x1034, 1036x1036, 1038x1038, 1040x1040, 1042x1042, 1044x1044, 1046x1046, 1048x1048, 1050x1050, 1052x1052, 1054x1054, 1056x1056, 1058x1058, 1060x1060, 1062x1062, 1064x1064, 1066x1066, 1068x1068, 1070x1070, 1072x1072, 1074x1074, 1076x1076, 1078x1078, 1080x1080, 1082x1082, 1084x1084, 1086x1086, 1088x1088, 1090x1090, 1092x1092, 1094x1094, 1096x1096, 1098x1098, 1100x1100, 1102x1102, 1104x1104, 1106x1106, 1108x1108, 1110x1110, 1112x1112, 1114x1114, 1116x1116, 1118x1118, 1120x1120, 1122x1122, 1124x1124, 1126x1126, 1128x1128, 1130x1130, 1132x1132, 1134x1134, 1136x1136, 1138x1138, 1140x1140, 1142x1142, 1144x1144, 1146x1146, 1148x1148, 1150x1150, 1152x1152, 1154x1154, 1156x1156, 1158x1158, 1160x1160, 1162x1162, 1164x1164, 1166x1166, 1168x1168, 1170x1170, 1172x1172, 1174x1174, 1176x1176, 1178x1178, 1180x1180, 1182x1182, 1184x1184, 1186x1186, 1188x1188, 1190x1190, 1192x1192, 1194x1194, 1196x1196, 1198x1198, 1200x1200, 1202x1202, 1204x1204, 1206x1206, 1208x1208, 1210x1210, 1212x1212, 1214x1214, 1216x1216, 1218x1218, 1220x1220, 1222x1222, 1224x1224, 1226x1226, 1228x1228, 1230x1230, 1232x1232, 1234x1234, 1236x1236, 1238x1238, 1240x1240, 1242x1242, 1244x1244, 1246x1246, 1248x1248, 1250x1250, 1252x1252, 1254x1254, 1256x1256, 1258x1258, 1260x1260, 1262x1262, 1264x1264, 1266x1266, 1268x1268, 1270x1270, 1272x1272, 1274x1274, 1276x1276, 1278x1278, 1280x1280, 1282x1282, 1284x1284, 1286x1286, 1288x1288, 1290x1290, 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